

# Crystal Falls Forest Management Unit Compartment Review Presentation

Compartment #152 Entry Year: 2012 Compartment Acreage: 835 County: Iron

**Revision Date:** July 19, 2010

Stand Examiner: Scott Sebero

**Legal Description:** T43N, R31W, Sections 19 and 30.

### Identified Planning Goals ('Management Area' or 'RMU', if applicable):

**Management Goals:** Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible.

**Soil and Topography:** Land is nearly level to hilly with a mix of Karlin and Vilas soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines, end moraines and outwash plains. Some areas contain rock outcrops that may be 50 to 100 feet in height. Some narrow depressions contain Cathro soils that are poorly drained black muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership patterns in this compartment consist mostly of State lands with some private parcels and a few year round residents. Lands in and around this compartment are used mainly for hunting and managed for forest products.

**Unique**, **Natural Features:** Kurkura Creek and Minnehaha Creek flow through this compartment.

Archeological, Historical, and Cultural Features: None.

**Special Management Designations or Considerations:** None.

#### Watershed and Fisheries Considerations:

**Wildlife Habitat Considerations:** This compartment is part of the east half of the Mansfield Cutoff Deeryard. It is almost and equal mix of aspen, spruce/fir, and mixed swamp conifer. Heavy winter deer use of the all of the stands currently prescribed for harvest is evident.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium sometimes thin to discontinuous over bedrock. The glacial

drift thickness varies between 0 and 50 feet. The Precambrian Hemlock Formation subcrops below the glacial drift. The abandoned Crystal Falls iron mines are located six miles to the west. Parts of this compartment were previously leased for metallic exploration. The Randville Dolomite is quarried three miles to the east. The nearest gravel pit is four miles to the west, but potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access is from Mansfield Cutoff Road and associated trail roads.

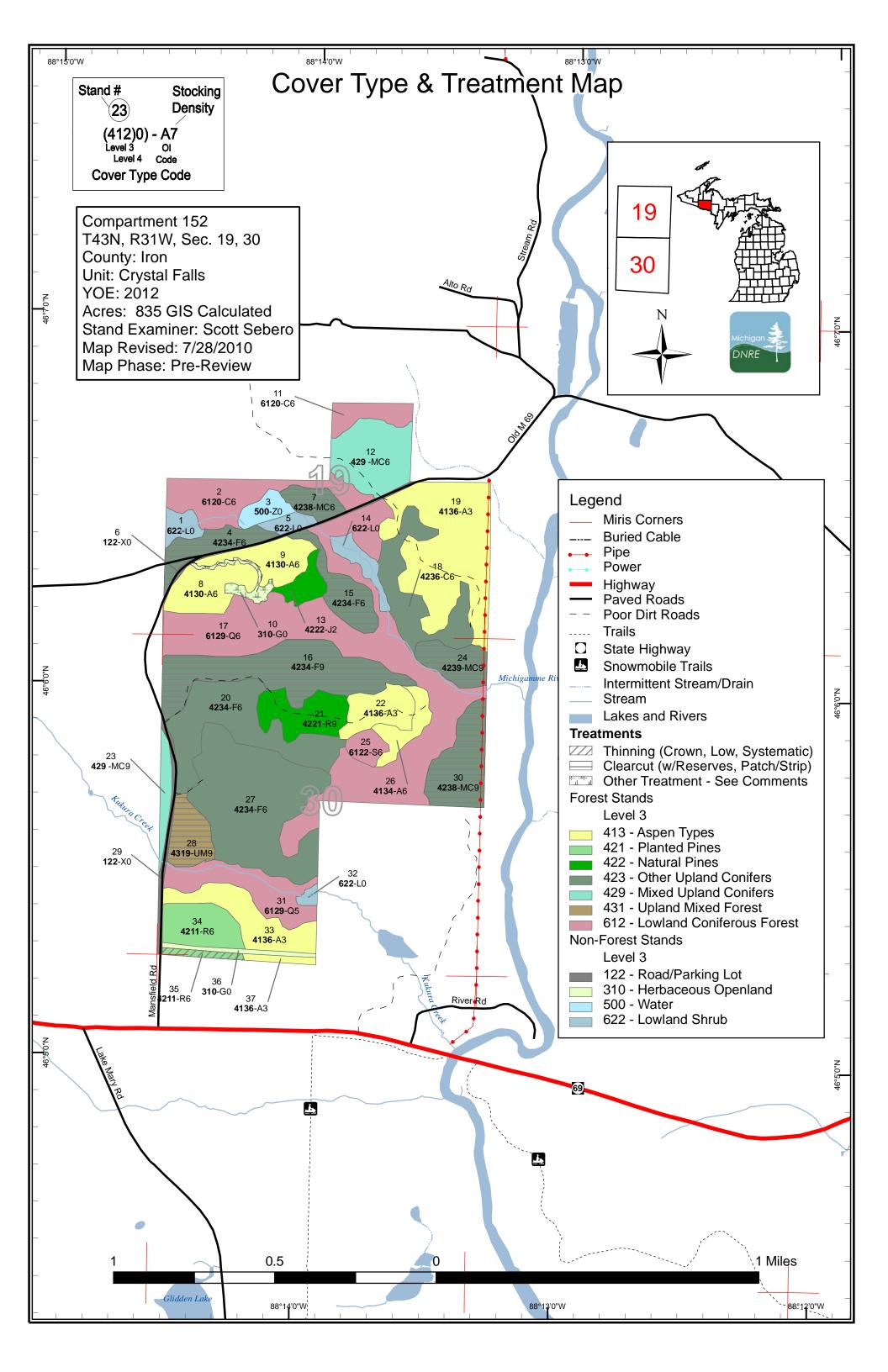
Survey Needs: None.

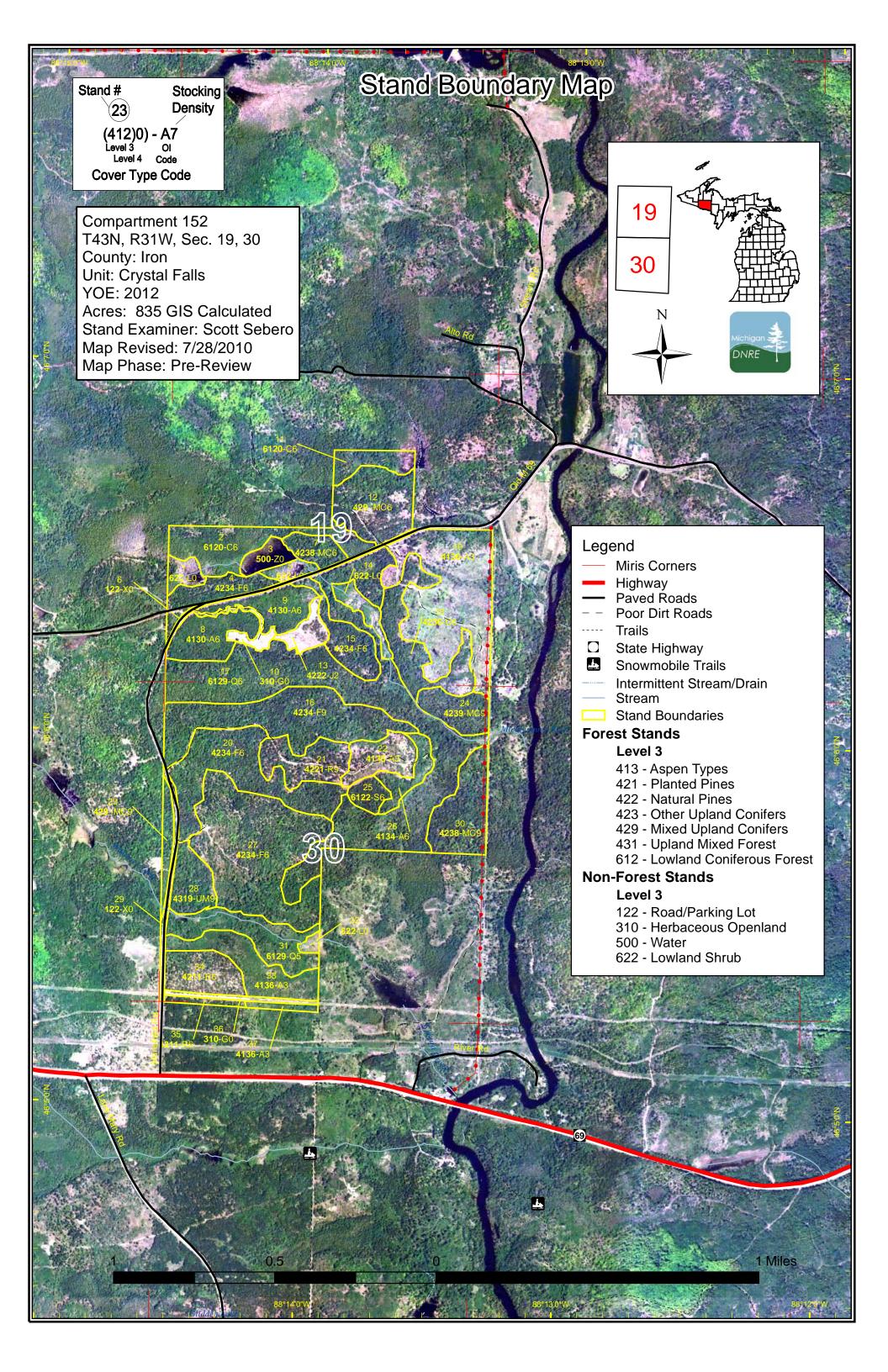
**Recreational Facilities and Opportunities:** This area is used heavily by deer hunters as well as grouse and turkey hunters.

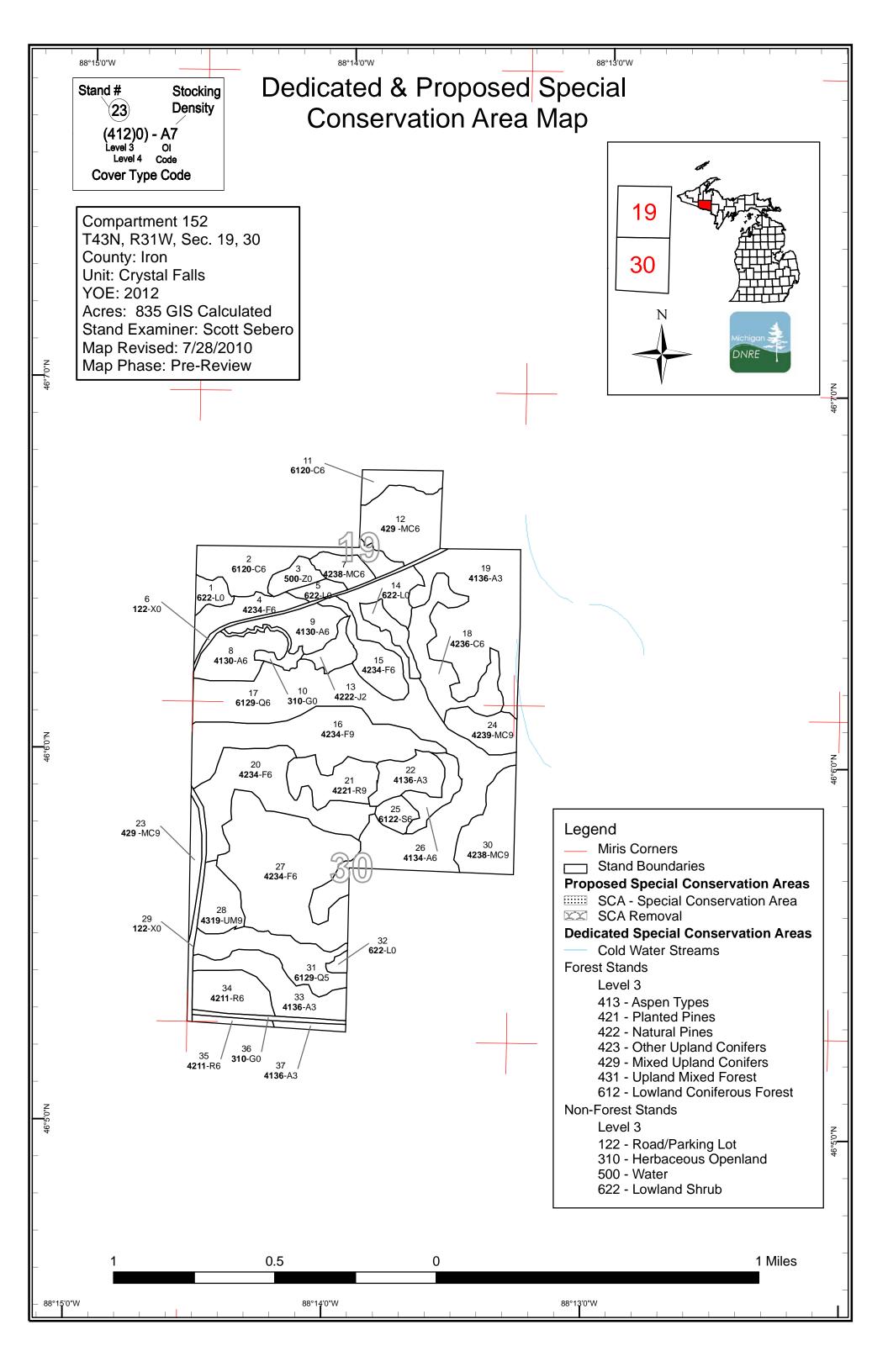
Fire Protection: None.

Additional Compartment Information: None.

- > The following reports from the Inventory are attached:
  - **♦** Total Acres by Cover Type and Age Class
  - **♦** Proposed Treatment Summary
  - **♦** Proposed Treatments No Limiting Factors
  - **♦** Proposed Treatments With Limiting Factors
  - **♦** Stand Details (Forested and Nonforested)
  - **♦** Dedicated and Proposed Special Conservation Areas
- > The following information is displayed, where pertinent, on the attached compartment maps:
  - ♦ Base feature information, stand boundaries, cover types, and numbers
  - **♦** Proposed treatments
  - ♦ Details on the road access system









							Age	Class									
	¥or			70,7g			go do	\$	80.70	S. J.	\$ 60 mg	85.05	, ga , a	70,73	, o , ju	S L	, \$ <sup>1</sup>
Aspen	0	72	45	0	10	37	0	0	0	0	0	0	0	0	0	164	
Cedar	0	0	0	0	0	0	0	0	0	0	0	71	0	0	0	71	
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Jack Pine	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8	
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	169	0	0	0	169	]
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	]
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7	]
Red Pine	0	0	0	0	0	0	23	0	0	20	0	0	0	0	0	43	]
Upland Conifers	0	0	0	0	0	0	0	0	0	9	0	49	0	0	31	89	]
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	15	]
Upland Spruce/Fir	0	0	0	0	0	131	0	0	0	32	0	58	0	0	0	221	
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	]
Total	49	72	53	0	10	168	23	0	0	68	0	362	0	0	31	835	



# **Table 2 – Proposed Treatment Summaries**

Crystal Falls Mgt. Unit

Compartment 152 Year of Entry 2012 **Total Compartment Acres: 835.4** 

# **Acres by Treatment Type**

Commercial Harvest - 159 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 5 Tree Seeding - 0 Pesticide - 0

#### **Cover Type by Harvest Method**

		Gover Type by Harvest Method							
		/(	TO SEE	To Joseph So	N. D. S.	N. S. C.	or Other Park		N. S.
Red Pine		0	0	0	0	3	0	3	
<b>Upland Conifers</b>		51	0	0	0	0	0	51	
Upland Mixed Forest		15	0	0	0	0	0	15	
Upland Spruce/Fi	90	0	0	0	0	0	90		
	Total	156	0	0	0	3	0	159	

Compartment: 152 Crystal Falls Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2012 s t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Method Name CoverType Density Objective **Status** d Age Type 12152004-Cut 14.9 42340 - Upland High Density Pole 80 Harvest Clearcut with Upland Spruce/Fir Cmpt. Review Spruce/Fir Reserves Proposal Prescription Cut all aspen, and mixed hardwood 2" and larger DBH. Cut all spruce, balsam and jack pine with a stump dia. of six inches or more. No red or white pine, cedar, hemlock or oak will be cut. Specs: <u>Other</u> Comments: <u>Next</u> Regen survey per work constructions. Steps: 12152007-Cut 9.1 42380 - Non Pine High Density Pole 80 Harvest Clearcut with Upland Spruce/Fir Cmpt. Review Upland Conifer, Reserves Proposal Mixed Deciduous Prescription Cut all aspen and mixed hardwood 2" DBH or greater. Cut all spruce, balsam and jack pine with a stump dia. of six inches or more. No red or white pine, cedar, hemlock or oak will be cut. Specs: <u>Other</u> Comments: Regen survey per work constructions. <u>Next</u> Steps: 15 12152015-Cut 16.7 42340 - Upland High Density Pole 80 Harvest Clearcut with Upland Spruce/Fir Cmpt. Review Spruce/Fir Reserves Proposal Prescription Cut all aspen and mixed hardwood greater than 2" DBH. Cut all spruce, balsam, and jack pine with a DBH of six inches or more. No red or white pine, cedar, hemlock or oak will be cut. Specs: <u>Other</u> Comments: Next Regen survey per work constructions. Steps: 42340 - Upland 12152016-Cut 58.1 High Density Log 100 Clearcut with Upland Spruce/Fir Cmpt. Review 16 Harvest Spruce/Fir Reserves Proposal Prescription Cut all aspen and mixed hardwood 2" DBH or greater. Cut all spruce, balsam, and jack pine with a stump dia. of six inches or more. No red or white pine, cedar, hemlock or oak will be cut. Specs: <u>Other</u> Comments: Next Regen survey per work constructions. Steps: 12152024-Cut 14.7 42390 - Mixed Non-Mixed Non-Pine Cmpt. Review 24 High Density Log 100 Harvest Clearcut with Pine Upland **Upland Conifers** Reserves Proposal Conifers

Prescription Cut all aspen and mixed hardwood greater than 2" DBH. Cut all spruce, balsam and jack pine with a stump dia. of six inches or more. No red or

Specs:
Other
Comments:
Next

Steps:

white pine, cedar, hemlck or oak will be cut.

Regen survey per work constructions

Compartment: 152 Crystal Falls Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2012 s t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Method Name CoverType Density Objective **Status** d Age Type 28 12152028-Cut 15.0 4319 - Mixed High Density Log 100 Harvest Clearcut with Aspen, Spruce/Fir Cmpt. Review Upland Forest Reserves Proposal Prescription Cut all aspen and mixed hardwood 2"DBH or greater. Cut all spruce, balsam and jack pine with a stump dia. of six inches or more. No red or white pine, cedar, hemlock or oak will be cut. Specs: <u>Other</u> Comments: <u>Next</u> Regen survey per work constructions. Steps: 30 12152030-Cut 27.1 42380 - Non Pine High Density Log 100 Harvest Clearcut with Non Pine Upland Cmpt. Review Upland Conifer, Reserves Conifer, Mixed Proposal Mixed Deciduous Deciduous Prescription Cut all aspen and mixed hardwoods 2" DBH or greater. Cut all spruce, balsam and jack pine with a stump dia. of six inches or more. No red or white pine, cedar, hemlock or oak will be cut. Specs: Other Comments: Next Regen survey per work constructions. Steps: 12152035-Cut 42110 - Planted High Density Pole Planted Red Pine Cmpt. Review 35 33 54 Harvest Systematic Thinning Red Pine Proposal Prescription Thin to a BA of 120. Specs: Harvest with larger stand in compartment to the South. Other\_ Comments: **Next** None. Steps: 10 NF 12152010-5.2 Non-Forested 0 Non-Forest Other - Specify Cool Season Grass Cmpt. Review NonFor Management Proposal

Prescription Opening Maintenance: Disc, Seed & Fertilize, and Berm Hunter Walking Trail.

<u>Other</u>

Comments:

<u>Next</u>

Specs:

Steps:

**Total Treatment** 

164.2 Acreage Proposed:

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s t		Crystal F	Falls Mgt. Unit	Table 4 -		ents Prescrib ing Factor	ed with	Compartment: 152 Year of Entry 2012	Michigan DNRE
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Pres	<u>cription</u>								

Specs:

<u>Other</u> Comment:

<u>Next</u> Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed:

0

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s t	Crystal Falls Mgt. Unit				ested Stands Method: IFMAP	Compartment: 152 Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	High Density Pole	30.7	100	81-110	
4	42340 - Upland Spruce/Fir	High Density Pole	14.9	80	51-80	
7	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	9.1	80	81-110	
8	4130 - Aspen	High Density Pole	20.1	40	51-80	
9	4130 - Aspen	High Density Pole	16.8	40	51-80	
11	6120 - Lowland Cedar	High Density Pole	10.8	100	81-110	
12	429 - Mixed Upland Conifers	High Density Pole	31.2	Uneven Age	51-80	
13	42220 - Natural Jack Pine	Medium Density	8.0	15		
15	42340 - Upland Spruce/Fir	High Density Pole	16.7	80	81-110	
16	42340 - Upland Spruce/Fir	High Density Log	58.1	100	81-110	
17	6129 - Mixed Coniferous Lowland Forest	High Density Pole	141.4	100	81-110	
18	42360 - Upland Cedar	High Density Pole	30.0	100	81-110	
19	4136 - Aspen, Mixed Conifer	High Density Sapling	71.7	6		
20	42340 - Upland Spruce/Fir	High Density Pole	48.3	40	51-80	
21	42210 - Natural Red Pine	High Density Log	20.4	80	111-140	Stand was thinned last entry.
22	4136 - Aspen, Mixed Conifer	High Density Sapling	16.1	17		
23	429 - Mixed Upland Conifers	High Density Log	6.9	100	81-110	
24	42390 - Mixed Non- Pine Upland Conifers	High Density Log	14.7	100	81-110	

s t					orested Stands ry Method: IFMAP	Compartment: 152 Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	6122 - Black Spruce	High Density Pole	6.5	80	81-110	
26	4134 - Aspen, Spruce/Fir	High Density Pole	10.2	36	51-80	
27	42340 - Upland Spruce/Fir	High Density Pole	82.9	40	51-80	
28	4319 - Mixed Upland Forest	High Density Log	15.0	100	81-110	
30	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Log	27.1	100	81-110	
31	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	27.7	100	51-80	
33	4136 - Aspen, Mixed Conifer	High Density Sapling	25.6	16		
34	42110 - Planted Red Pine	High Density Pole	19.3	54	51-80	
35	42110 - Planted Red Pine	High Density Pole	3.3	54	111-140	
37	4136 - Aspen, Mixed Conifer	High Density Sapling	3.1	16		

Crystal Falls Mgt. Unit

# 6 - Nonforested Stands Inventory Method: IFMAP

Compartment: 152 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
1	622 - Lowland Shrub	6.0	
3	50 - Water	7.4	
5	622 - Lowland Shrub	4.6	
6	122 - Road/Parking Lot	5.0	
10	310 - Herbaceous Openland	5.2	
14	622 - Lowland Shrub	7.8	
29	122 - Road/Parking Lot	6.8	
32	622 - Lowland Shrub	2.0	
36	310 - Herbaceous Openland	4.1	

Crystal Falls Mgt. Unit Compartment: 152

Year of Entry: 2012



#### 7 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatIves (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Inventory Method: IFMAP

Stand	SCA Type	SCA Name	Acres	Comments

Crystal Falls Mgt. Unit Compartment: 152





#### **8 – DEDICATED CONSERVATION AREA DETAILS**

\* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	stocked trout populations and those of other cold year to year. Coldwater streams in Michigan typic	s. Such streams are established by Director's action and